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WAR FOOD ADMINISTRATION

Office of Marketing Services

WASHINGTON 25, D. C.



April 1945

To: Cotton Specialists and Breeders

A publication entitled "Results of Fiber and Spinning Tests for Some Varieties of Upland Cotton Grown in the United States, Crop of 1944" is now being distributed. This publication, as the title indicates, summarizes the fiber and spinning test results for upland cottons produced during the 1944 season at the various Federal and State experiment stations in connection with the Federal-State Cotton Breeding and Improvement Program. In view of the fact that this series of publications is now being rather widely distributed and is receiving considerable attention on the part of cotton manufacturers and the cotton trade, it was decided to include only those varieties and strains that are now in commercial production and selections that are expected to go into commercial production in the near future. This course was followed at the suggestion of Dr. H. W. Barre of the Bureau of Plant Industry, Soils and Agricultural Engineering.

Attached hereto are tables containing test results for those cottons that were tested from the 1944 crop but which were not included in the results published for general distribution to the cotton industry. The distribution of these tables is being limited to experiment station workers and others who may be interested in these cottons which represent, for the most part, breeders' material that is still in the experimental stage. The basis for interpretation of test results and weather data for the various stations as incorporated in the published report, are applicable also to the data contained in these tables.

It is believed that this method of making the test results available will meet the requirements of those interested and will obviate the possibility of having spinners and others becoming concerned about new selections which, although they may indicate very desirable spinning performance, may have very limited, if any, commercial possibilities.

Very truly yours,

John W. Wright
Chief, Research and Testing Division
Cotton and Fiber Branch

Attachments

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Table 1. - Commercial classification and fiber laboratory test results for some varieties of upland cotton grown at specified locations, Crop of 1944 - continued

| Place of growth and variety | Commercial classification | | | Fiber laboratory test results | | | | | | | |
|--------------------------------|------------------------------|------------------|--------|-------------------------------|--------|-----------------|----------------------------------|-------------------|---------------------------|---------------------------|----------------|
| | Grade | Staple length | | Length (fibrograph) | | | Fineness | | Mature fibers | Fiber tensile strength | X-ray angle |
| | | | | Upper half | Mean | Uni- formity | (weight per inch of fiber) | Inch of fiber) | | | |
| | | | | mean | | ratio | | | | | |
| (1) | (2) | (3) | | (4) | (5) | (6) | (7) | (8) | (9) | | (10) |
| | | | Inches | Inches | Inches | Index | Micrograms | Percent | 1,000 lbs. Per sq. in. | | Degrees |
| Statesville, N. C. | | | | | | | | | | | |
| Mexican x Farm Relief x | | | | | | | | | | | |
| Coker 100-2-1-1 | GM EW | 31/32 | | 1.00 | 0.79 | 79 | 4.2 | 75 | 77 | | 37 |
| Mexican x Farm Relief x | GM EW | 31/32 | | .97 | .75 | 77 | 4.1 | 69 | 71 | | 41 |
| Coker 100-2-2-1 | GM EW | 1 | | .93 | .74 | 80 | 4.7 | 76 | 80 | | 33 |
| Stoneville 4B-5-1-1 | | | | | | | | | | | |
| Florence, S. C. | | | | | | | | | | | |
| Deltapine 37-45-267 | GM EW | 1-5/16 | | 1.27 | .92 | 72 | 3.3 | 71 | 71 | | 40 |
| Experiment, Ga. | | | | | | | | | | | |
| CSS 3720 | M | 15/16 | | .95 | .74 | 78 | 4.3 | 73 | 76 | | 37 |
| Empire 7-8 | SLM | 1 | | 1.00 | .77 | 77 | 4.2 | 69 | 72 | | 36 |
| Empire 9-11 | SLM | 1-1/32 | | 1.00 | .76 | 76 | 4.3 | 69 | 78 | | 34 |
| Empire 2-5 | M | 1-1/32 | | 1.03 | .78 | 76 | 4.3 | 67 | 76 | | 35 |
| Empire 8-5 | SLM | 1-1/32 | | .98 | .78 | 80 | 4.3 | 67 | 74 | | 36 |
| Empire 1-2-5 | M | 1-1/32 | | .98 | .79 | 81 | 4.5 | 69 | 74 | | 36 |
| Empire 10-10 | SLM | 1-1/32 | | 1.02 | .81 | 79 | 4.5 | 66 | 76 | | 34 |
| Empire C | M | 1 | | 1.00 | .77 | 77 | 4.2 | 65 | 76 | | 34 |
| Empire 2-4 | M | 1 | | 1.00 | .76 | 76 | 4.6 | 70 | 73 | | 35 |
| Empire 9-2 | SLM | 1-1/32 | | 1.01 | .77 | 76 | 4.1 | 68 | 76 | | 35 |
| Empire 5-4 | SLM | 1-1/32 | | 1.03 | .77 | 75 | 4.2 | 66 | 72 | | 37 |
| Empire 1-1 | M | 1-1/32 | | 1.01 | .79 | 78 | 3.6 | 67 | 72 | | 36 |
| Empire 10-4 | M | 1-1/32 | | .98 | .76 | 78 | 4.4 | 68 | 77 | | 34 |
| Tifton, Ga. | | | | | | | | | | | |
| Station C-42 | M EW | 1 | | .95 | .72 | 76 | 3.9 | 63 | 68 | | 43 |
| Knoxville, Tenn. | | | | | | | | | | | |
| Acala 911 (330-1-8-4-2) | SM EW | 1-1/8 | | 1.26 | .91 | 72 | 4.2 | 76 | 82 | | 34 |
| Coker 33-12 (289-3-5) | M | 1-1/32 | | 1.03 | .72 | 70 | 4.8 | 87 | 73 | | 39 |
| Delfos 339-3-2-6-3 | M | 31/32 | | 1.01 | .74 | 73 | 5.0 | 84 | 79 | | 36 |
| Stoneville 37-13 | M | 15/16 | | .89 | .70 | 79 | 5.2 | 84 | 81 | | 35 |
| Baton Rouge, La. | | | | | | | | | | | |
| Hybrid 62-75-16 | SLM | 29/32 | | .88 | .68 | 77 | 5.3 | 79 | 71 | | 35 |
| Calhoun, La. | | | | | | | | | | | |
| Hybrid 35 x 11 x 11-01 | M | 15/16 | | .96 | .76 | 79 | 4.7 | 76 | 82 | | 34 |
| Marianna, Ark. | | | | | | | | | | | |
| C 5 (Acala) | SM | 1-1/32 | | 1.01 | .83 | 82 | 4.4 | 73 | 94 | | 29 |
| C 7 (Acala) | M | 31/32 | | .96 | .79 | 82 | 5.2 | 81 | 77 | | 35 |
| Deltapine A-12 | M | 1 | | 1.03 | .79 | 77 | 4.5 | 71 | 79 | | 36 |
| Deltapine A-5 | M | 31/32 | | .98 | .77 | 79 | 4.6 | 76 | 80 | | 34 |
| Rowden 60-A | SLM | 1 | | 1.05 | .86 | 82 | 4.9 | 74 | 84 | | 32 |
| E4 (Stoneville) | M | 31/32 | | 1.08 | .85 | 79 | 4.3 | 73 | 78 | | 31 |
| Supreme 10 | M | 1 | | 1.06 | .84 | 79 | 4.6 | 72 | 80 | | 30 |
| Chickasha, Okla. | | | | | | | | | | | |
| Acala 2496 | SM | 15/16 | | .88 | .68 | 77 | 4.5 | 73 | 79 | | 33 |
| Acala 6553-11-4-3 | SM | 29/32 | | .86 | .67 | 78 | 4.3 | 70 | 86 | | 30 |
| Greenville, Texas | | | | | | | | | | | |
| Acala 36-13 | M | 15/16 | | .91 | .68 | 75 | 4.0 | 71 | 87 | | 35 |
| Acala 100-5 | M | 31/32 | | .96 | .72 | 75 | 3.8 | 73 | 89 | | 35 |
| Acala 108-2 | M | 31/32 | | .92 | .71 | 77 | 4.4 | 69 | 84 | | 32 |
| Acala 118 | M br | 15/16 | | .92 | .70 | 76 | 4.2 | 74 | 84 | | 34 |
| Acala 204-2 | M | 31/32 | | .91 | .69 | 76 | 3.8 | 77 | 84 | | 35 |
| ASA | M | 31/32 | | .93 | .71 | 76 | 4.1 | 74 | 86 | | 32 |
| Kekchi 7-3 | M | 1 | | .95 | .70 | 74 | 3.4 | 71 | 89 | | 29 |
| Rowden 60-A | M | 15/16 | | .89 | .66 | 74 | 5.1 | 75 | 84 | | 30 |
| Textone | SLM | 15/16 | | .89 | .67 | 75 | 4.0 | 74 | 84 | | 30 |

(Continued on following page)

1/ Converted from Pressley index according to the following formula: Tensile strength = (10.8116 x Pressley index - 0.12)

Table 2. - Manufacturing performance and yarn quality results for some varieties of upland cotton grown at specified locations, Crop of 1944 - continued

| Place of growth and variety | Picker and card waste | Skein strength of carded yarn | | | | | Equivalent staple length 2/ | Neps per 100 sq. inches of card web | Yarn appearance 3/ | | | | | |
|--------------------------------|--------------------------------|-------------------------------|--------|----------------|----------|--------|--------------------------------------|--|--------------------|--------|--------|--------|--------|--------|
| | | 22s | 36s | Third count | spun 1/ | (1) | | | (2) | (3) | (4) | (5) | (6) | (7) |
| | | Percent | Pounds | Pounds | Pounds | Inches | | | Percent | Pounds | Pounds | Pounds | Inches | Number |
| Statesville, N. C. | | | | | | | | | | | | | | |
| Mexican x Farm Relief x | | | | | | | | | | | | | | |
| Coker 100-2-1-1 | 7.7 | 92 | 49 | 32 (50s) | 15/16 | | | 12 | B | B - | B - | B - | | |
| Mexican x Farm Relief x | | | | | | | | | | | | | | |
| Coker 100-2-2-1 | 7.2 | 85 | 44 | 29 (50s) | 7/8 - | | | 13 | B + | B - | C + | | | |
| Stoneville 4B-5-1-1 | 6.8 | 97 | 50 | 32 (50s) | 31/32 | | | 8 | B + | B | B | B | | |
| Florence, S. C. 3/ | | | | | | | | | | | | | | |
| Deltapine 37-45-867 | 6.8 | 122 | 66 | 35 (60s) | 1-1/4 | | | 36 | C + | C | C | C | | |
| Experiment, Ga. | | | | | | | | | | | | | | |
| CSS 3720 | 6.7 | 94 | 49 | 32 (50s) | 15/16 + | | | 12 | B + | B | B | B | | |
| Empire 7-8 | 6.2 | 97 | 50 | 33 (50s) | 31/32 | | | 11 | B + | B | B | B | | |
| Empire 9-11 | 6.5 | 96 | 51 | 26 (60s) | 1 - | | | 16 | B + | B | B | B | | |
| Empire 2-5 | 7.5 | 96 | 51 | 26 (60s) | 1 | | | 14 | B + | B | B | B | | |
| Empire 8-5 | 7.5 | 95 | 50 | 24 (60s) | 31/32 - | | | 13 | B + | B | B | B | | |
| Empire 1-2-5 | 7.7 | 95 | 51 | 25 (60s) | 31/32 + | | | 13 | B | B | B | B | | |
| Empire 10-10 | 7.2 | 97 | 52 | 26 (60s) | 1 | | | 17 | B | B | B | B | | |
| Empire C | 7.2 | 99 | 51 | 35 (50s) | 1 | | | 15 | B + | B | B | B | | |
| Empire 2-4 | 6.5 | 97 | 50 | 33 (50s) | 31/32 | | | 14 | B | B | B | B | | |
| Empire 9-2 | 6.5 | 96 | 51 | 26 (60s) | 1 - | | | 14 | B + | B | B | B | | |
| Empire 5-4 | 7.7 | 95 | 50 | 25 (60s) | 31/32 | | | 18 | B + | B | B | B | | |
| Empire 1-1 | 7.1 | 94 | 51 | 25 (60s) | 31/32 | | | 16 | B + | B | B | B | | |
| Empire 10-4 | 7.0 | 96 | 51 | 25 (60s) | 31/32 + | | | 13 | B | B | B | B | | |
| Tifton, Ga. | | | | | | | | | | | | | | |
| Station C-42 | 7.6 | 91 | 48 | 31 (50s) | 15/16 - | | | 8 | B | B - | C + | | | |
| Knoxville, Tenn. | | | | | | | | | | | | | | |
| Acala 911 (330-1-8-4-2) | 7.4 | 105 | 56 | 26 (60s) | 1-1/16 - | | | 7 | A - | B | B | B | | |
| Coker 33-12 (289-3-5) | 8.1 | 91 | 47 | 22 (60s) | 29/32 + | | | 13 | B + | B | B + | B | | |
| Delfos 339-3-2-6-3 | 6.2 | 93 | 47 | 30 (50s) | 29/32 + | | | 8 | B + | B | A - | B | | |
| Stoneville 37-13 | 8.0 | 91 | 46 | 29 (50s) | 29/32 - | | | 11 | B + | B | | | | |
| Baton Rouge, La. | | | | | | | | | | | | | | |
| Hybrid 62-75-16 | 4.5 | 78 | 38 | 27 (44s) | 3/4 + | | | 8 | B + | B | B | B | | |
| Calhoun, La. | | | | | | | | | | | | | | |
| Hybrid 35 x 11 x 11 - 01 | 6.0 | 96 | 47 | 28 (50s) | 29/32 + | | | 5 | B + | B | B | B | | |
| Marianna, Ark. | | | | | | | | | | | | | | |
| C 5 (Acala) | 6.1 | 103 | 54 | 23 (60s) | 1 | | | 13 | B + | B | B | B | | |
| C 7 (Acala) | 4.8 | 89 | 43 | 24 (50s) | 27/32 - | | | 3 | A - | B | B + | B | | |
| Deltapine A-12 | 6.7 | 95 | 52 | 31 (50s) | 31/32 - | | | 10 | B + | B | B | B | | |
| Deltapine A-5 | 4.4 | 97 | 51 | 30 (50s) | 31/32 - | | | 7 | B + | B | B | B | | |
| Rowden 60-A | 5.8 | 100 | 49 | 30 (50s) | 31/32 - | | | 11 | B | B | B | B | | |
| E4 (Stoneville) | 5.3 | 102 | 54 | 34 (50s) | 1 + | | | 16 | B + | B | B | B | | |
| Supreme 10 | 6.1 | 99 | 52 | 32 (50s) | 31/32 + | | | 12 | B + | B | B | B | | |
| Chickasha, Okla. | | | | | | | | | | | | | | |
| Acala 2496 | 7.2 | 97 | 53 | 31 (50s) | 31/32 + | | | 14 | B + | B | B | B | | |
| Acala 6553-11-4-3 | 7.6 | 99 | 51 | 38 (44s) | 31/32 | | | 12 | B + | B | B + | B | | |
| Greenville, Texas | | | | | | | | | | | | | | |
| Acala 36-13 | 7.4 | 100 | 56 | 34 (50s) | 1-1/32 | | | 17 | B + | B | B | B | | |
| Acala 100-5 | 7.2 | 109 | 58 | 38 (50s) | 1-3/32 | | | 28 | B | C + | C + | C | | |
| Acala 108-2 | 7.0 | 106 | 53 | 32 (50s) | 1 + | | | 21 | B + | B | B | B | | |
| Acala 118 | 7.3 | 105 | 54 | 34 (50s) | 1-1/32 | | | 27 | B - | B | B | B | | |
| Acala 204-2 | 7.5 | 110 | 55 | 36 (50s) | 1-1/16 + | | | 32 | B - | C + | C + | C | | |
| ASA | 7.7 | 106 | 56 | 36 (50s) | 1-1/16 - | | | 22 | B + | B | B | B | | |
| Kekchi 7-3 | 8.7 | 106 | 58 | 37 (50s) | 1-1/16 + | | | 25 | B - | C + | C + | C | | |
| Rowden 60-A | 7.7 | 102 | 52 | 32 (50s) | 1 - | | | 21 | B | C + | C + | C | | |
| Textone | 8.2 | 101 | 54 | 35 (50s) | 1-1/32 - | | | 22 | B | B | B | B | | |

(Continued on following page)

1/ Figures in parenthesis indicate yarn count spun.

2/ Average for three counts of yarn.

3/ In accordance with yarn appearance standards of American Society for Testing Materials.

4/ See column 5, footnote 1.

Table 1. - Commercial classification and fiber laboratory test results for some varieties of upland cotton grown at specified locations, Crop of 1944

| Place of growth and variety | Commercial classification | | | Fiber laboratory test results | | | | | | | |
|---|------------------------------|------------------|--------|-------------------------------|-------|-----------------|--|-----------------|---------------------------------|----------------|----|
| | Grade | Staple length | | Length (fibrograph) | | | Fineness (weight per inch of fiber) | Mature fiber | Fiber 1/ tensile strength | X-ray angle | |
| | | | | Upper half | Mean | Uni- formity | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | | |
| | | Inches | Inches | Inches | Index | | Micrograms | Percent | 1,000 lbs. per sq. in. | Degrees | |
| Temple, Texas | | | | | | | | | | | |
| B 4 (Rowden) | M | 15/16 | 0.86 | 0.67 | 78 | | 4.4 | 75 | 85 | | 31 |
| E 4 (Stoneville 2) | SLM | 15/16 | .82 | .63 | 77 | | 3.9 | 65 | 79 | | 28 |
| Supreme (Rowden) | M | 29/32 | .89 | .67 | 75 | | 5.6 | 77 | 86 | | 30 |
| College Station, Texas (Brazos Farm) | | | | | | | | | | | |
| Oklahoma Triumph x Wesson | | | | | | | | | | | |
| Mebane 5-128 | SLM | 15/16 | .84 | .65 | 77 | | 4.4 | 73 | 71 | | 38 |
| Rowden x Delfos 719-B124 | SLM | 15/16 | .86 | .66 | 77 | | 5.6 | 76 | 82 | | 32 |
| Stoneville 2B-85 | SLM | 15/16 | .89 | .68 | 76 | | 4.3 | 71 | 81 | | 31 |
| Stoneville 2B x Rogers | | | | | | | | | | | |
| Acala 4-128 | SLM | 15/16 | .89 | .66 | 74 | | 4.2 | 71 | 85 | | 32 |
| Supreme 10 | SLM | 15/16 | .92 | .71 | 77 | | 4.6 | 76 | 80 | | 33 |
| Sunshine x D.P.L. 11A-66 | SLM | 15/16 | .91 | .69 | 76 | | 5.6 | 82 | 89 | | 31 |
| Tyler, Texas | | | | | | | | | | | |
| Rhynes Cook x Lankart x Miller | M | 15/16 | .88 | .71 | 81 | | 5.6 | 80 | 76 | | 37 |
| Rhynes Cook x D.P.L. 11A x D.P.L. 12 | M | 15/16 | .91 | .73 | 80 | | 5.3 | 82 | 78 | | 35 |
| Rhynes Cook x Lankart x Miller | M | 15/16 | .83 | .66 | 80 | | 5.8 | 79 | 72 | | 37 |
| Weslaco, Texas | | | | | | | | | | | |
| Supreme 10 (Rowden x Stoneville 2B) | M | 1-3/32 | 1.04 | .78 | 75 | | 4.0 | 68 | 80 | | 34 |
| Chillicothe, Texas | | | | | | | | | | | |
| Lockett 140-46 | SLM | 15/16 | .81 | .67 | 83 | | 5.8 | 82 | 84 | | 32 |
| Mars L. S. Cluster | SLM | 15/16 | .83 | .69 | 83 | | 5.5 | 83 | 86 | | 32 |
| Lubbock, Texas | | | | | | | | | | | |
| C. A. 1 | SLM | 15/16 | .92 | .73 | 79 | | 4.6 | 74 | 72 | | 39 |
| C. A. 51 | SM | 7/8 | .84 | .69 | 82 | | 5.0 | 79 | 72 | | 38 |
| C. A. 114 | M | 31/32 | .93 | .73 | 78 | | 4.7 | 78 | 78 | | 37 |
| C. A. 89A | SM 1tsp | 31/32 | .91 | .69 | 76 | | 4.4 | 76 | 80 | | 36 |
| State College, New Mexico | | | | | | | | | | | |
| Acala W-29-4 | SM- | 1-5/32 | 1.19 | .96 | 81 | | 3.4 | 76 | 88 | | 33 |
| Acala W-29-E | M- | 1-1/8 | 1.14 | .90 | 79 | | 3.6 | 71 | 82 | | 36 |
| Acala W-20-1-5-2 | SM- | 1-3/32 | 1.17 | .92 | 79 | | 3.7 | 71 | 82 | | 37 |
| Acala 40-26-1 | SM- | 1-5/32 | 1.18 | .85 | 72 | | 3.2 | 63 | 82 | | 37 |
| Acala MA 239 | M- | 1-1/4 | 1.33 | 1.00 | 75 | | 2.9 | 76 | 82 | | 39 |
| Sacaton, Arizona | | | | | | | | | | | |
| Acala x Durango F6 12-1-1 | SM- | 1-1/16 | 1.02 | .76 | 75 | | 4.4 | 84 | 84 | | 36 |
| Acala x Durango F6 25-1-14 | M | 1-1/32 | 1.03 | .81 | 79 | | 3.9 | 81 | 88 | | 33 |
| Wilds 9-2-3-4-21 | SM- | 1-1/16 | 1.07 | .81 | 76 | | 3.7 | 76 | 84 | | 36 |
| Ewing Long Staple 1-1-5 | M EW | 1-3/32 | 1.12 | .88 | 79 | | 3.6 | 76 | 92 | | 33 |
| Acala 1-1-7 (Safford growth) | SLM EW | 1-1/32 | 1.04 | .79 | 76 | | 4.3 | 82 | 74 | | 41 |
| Shafter, California | | | | | | | | | | | |
| Acala 1517 4-42-44-60 | GM | 1-1/16 | 1.10 | .89 | 81 | | 4.2 | 79 | 88 | | 32 |
| Acala 1517 1-23-11-3 | GM | 1-1/32 | 1.06 | .92 | 87 | | 4.6 | 85 | 76 | | 39 |
| Acala 1517 1-23-11-5 | GM | 1-1/16 | 1.09 | .88 | 81 | | 4.3 | 82 | 78 | | 37 |
| Acala 1517 5-12-7-6 | GM | 1-1/8 | 1.15 | .93 | 81 | | 3.6 | 76 | 95 | | 31 |
| Acala 1517 7-49-1-30 | GM | 1-1/16 | 1.11 | .85 | 77 | | 4.0 | 82 | 85 | | 33 |
| Acala 5S5-4-1-11-4 | GM | 1-1/16 | 1.10 | .83 | 75 | | 3.6 | 77 | 88 | | 31 |
| Acala 5S5-4-1-11-34 | GM | 1-1/16 | 1.06 | .80 | 75 | | 4.1 | 81 | 77 | | 40 |
| Acala x Durango x Acala F5-27 | GM | 1-1/16 | 1.10 | .88 | 80 | | 3.9 | 80 | 82 | | 38 |
| Acala x Hopi x Acala 5 F3- 6-1 | GM | 1-1/16 | 1.07 | .93 | 87 | | 3.7 | 86 | 104 | | 28 |

1/ Converted from Pressley index according to the following formula: Tensile Strength = (10.8116 x Pressley index) - 0.12

Prepared in the Research and Testing Division, Cotton and Fiber Branch, Office of Marketing Services.

Table 2. - Manufacturing performance and yarn quality results for some varieties of upland cotton grown at specified locations, Crop of 1944 - continued

| Place of growth and variety | Picker | Skein strength of carded yarn | | | | | Equivalent staple length 2/ | Neps per 100 sq. inches of card web | Yarn appearance 3/ | | | |
|---|--------|-------------------------------|--------|--------|---------------------------|----------|--------------------------------------|--|--------------------|-------|---------------------------|-------|
| | | and card waste | 22s | 36s | Third count spun 1/ | (5) | | | 22s | 36s | Third count spun 4/ | |
| | | (1) | (2) | (3) | (4) | (6) | (7) | (8) | (9) | (10) | | |
| | | Percent | Pounds | Pounds | Pounds | Inches | Number | Grade | Grade | Grade | Grade | Grade |
| Temple, Texas | | | | | | | | | | | | |
| B 4 (Rowden) | | 6.4 | 102 | 53 | 32 (50s) | 1 | 8 | B+ | B- | B | | |
| E 4 (Stoneville 2) | | 8.9 | 92 | 47 | 29 (50s) | 29/32+ | 23 | B | B- | B- | B- | |
| Supreme (Rowden) | | 8.9 | 95 | 47 | 34 (44s) | 29/32 | 6 | B+ | B | B | B | |
| College Station, Texas (Brazos Farm) | | | | | | | | | | | | |
| Oklahoma Triumph x Wesson | | | | | | | | | | | | |
| Mebane 5-128 | | 8.7 | 89 | 46 | 28 (50s) | 7/8+ | 14 | B+ | B | B- | B- | |
| Rowden x Delfos 719-B124 | | 10.0 | 84 | 42 | 24 (50s) | 13/16 | 15 | B | B- | C+ | | |
| Stoneville 2B-85 | | 7.5 | 98 | 53 | 33 (50s) | 1 | 13 | B+ | B+ | B+ | B | |
| Stoneville 2B x Rogers | | | | | | | | | | | | |
| Acala 4-128 | | 8.2 | 100 | 54 | 34 (50s) | 1+ | 32 | B+ | B- | B- | B- | |
| Supreme 10 | | 8.2 | 99 | 52 | 32 (50s) | 31/32+ | 16 | B+ | B | B | B | |
| Sunshine x D.&P.L. 11A-66 | | 8.3 | 94 | 46 | 26 (50s) | 7/8+ | 8 | B | B- | B- | B- | |
| Tyler, Texas | | | | | | | | | | | | |
| Rhynes Cook x Lankart x Miller | | 7.6 | 94 | 46 | 28 (50s) | 29/32 | 4 | B+ | B | B | B- | |
| Rhynes Cook x D.&P.L. 11A x D.&P.L. 12 | | 6.3 | 99 | 50 | 32 (50s) | 31/32 | 4 | A- | B+ | B+ | B | |
| Rhynes Cook x Lankart x Miller | | 7.6 | 88 | 43 | 26 (50s) | 27/32+ | 5 | B | B | B | B | |
| Weslaco, Texas | | | | | | | | | | | | |
| Supreme 10 (Rowden x Stoneville 2B) | | 5.0 | 104 | 56 | 28 (60s) | 1-1/16 | 10 | B+ | B- | B- | B | |
| Chillicothe, Texas | | | | | | | | | | | | |
| Lookett 140-46 | | 9.9 | 88 | 45 | 24 (50s) | 27/32- | 6 | A- | B+ | B+ | B | |
| Mars L. S. Cluster | | 9.4 | 88 | 45 | 24 (50s) | 27/32 | 7 | A- | B+ | B+ | B | |
| Lubbock, Texas | | | | | | | | | | | | |
| C. A. 1 | | 5.4 | 86 | 44 | 29 (50s) | 7/8 | 6 | B+ | B | B | B | |
| C. A. 51 | | 5.6 | 85 | 42 | 33 (44s) | 27/32 | 13 | B+ | B+ | B+ | B | |
| C. A. 114 | | 5.3 | 93 | 51 | 32 (50s) | 31/32- | 7 | B+ | B | B | B- | |
| C. A. 89A | | 5.3 | 90 | 47 | 31 (50s) | 29/32+ | 12 | B+ | B | B | C+ | |
| State College, New Mexico | | | | | | | | | | | | |
| Acala W-29-4 | | 6.4 | 133 | 75 | 40 (60s) | 1-3/8 | 23 | B- | B- | B- | C | |
| Acala W-29-E | | 7.2 | 119 | 67 | 34 (60s) | 1-7/32+ | 21 | B | C+ | C+ | C+ | |
| Acala W-20-1-5-2 | | 7.3 | 118 | 65 | 35 (60s) | 1-7/32+ | 32 | C+ | C+ | C+ | C | |
| Acala 40-26-1 | | 7.2 | 113 | 60 | 32 (60s) | 1-5/32 | 37 | C | C | C | C | |
| Acala MA 239 | | 8.0 | 127 | 70 | 38 (60s) | 1-5/16 | 41 | C- | D+ | D | | |
| Sacaton, Arizona | | | | | | | | | | | | |
| Acala x Durango F6 12-1-1 | | 6.3 | 109 | 57 | 29 (60s) | 1-3/32 | 18 | B | B- | B- | B- | |
| Acala x Durango F6 25-1-14 | | 6.8 | 112 | 61 | 31 (60s) | 1-5/32- | 19 | B | B- | C+ | C+ | |
| Wilds 9-2-3-4-21 | | 7.7 | 116 | 63 | 33 (60s) | 1-3/16 | 14 | B | C+ | C+ | C+ | |
| Ewing Long Staple 1-1-5 | | 8.3 | 121 | 67 | 34 (60s) | 1-1/4- | 17 | B- | C+ | C | C | |
| Acala 1-1-7 (Safford growth) | | 10.9 | 85 | 45 | 22 (60s) | 7/8 | 19 | C+ | C+ | C+ | C- | |
| Shafter, California | | | | | | | | | | | | |
| Acala 1517 4-42-44-60 | | 5.2 | 126 | 67 | 34 (60s) | 1-1/4+ | 12 | B | B | B | B | |
| Acala 1517 1-23-11-3 | | 5.8 | 106 | 58 | 27 (60s) | 1-1/16+ | 11 | A- | B+ | B+ | B+ | |
| Acala 1517 1-23-11-5 | | 5.9 | 115 | 62 | 31 (60s) | 1-5/32 | 16 | B+ | B | B | B | |
| Acala 1517 5-12-7-6 | | 5.7 | 141 | 79 | 41 (60s) | 1-7/16 | 18 | B | B- | B- | B- | |
| Acala 1517 7-49-1-30 | | 5.4 | 128 | 68 | 35 (60s) | 1-9/32 | 13 | B+ | B | B | B- | |
| Acala 5S5-4-1-11-4 | | 5.6 | 121 | 63 | 33 (60s) | 1-7/32- | 22 | B | C+ | C | C | |
| Acala 5S5-4-1-11-34 | | 6.0 | 100 | 54 | 27 (60s) | 1-1/32 | 17 | B | B | B | C+ | |
| Acala x Durango x Acala F5-27 | | 5.8 | 112 | 61 | 32 (60s) | 1-5/32 | 13 | B | B | B | B- | |
| Acala x Hopi x Acala 5 F3- 6-1 | | 4.2 | 152 | 84 | 43 (60s) | 1-17/32- | 11 | B+ | B+ | B+ | B+ | |

1/ Figures in parenthesis indicate yarn count spun.

2/ Average for three counts of yarn.

3/ In accordance with the yarn appearance standards of American Society for Testing Materials.

4/ See Column 5, footnote 1.

